
Problem	Answer
1. A car goes from 0 to 27 m/s in 9 s. Find a.	
2. A train slows from 30 m/s to 10 m/s in 25 s. Find a.	
3. A ball starts at 4 m/s and accelerates at 2 m/s ² for 3 s. Find v.	
4. How long to reach 20 m/s from rest at 2.5 m/s ² ?	
5. Convert 0–100 km/h in 10 s to m/s ² and g.	
6. A cyclist brakes from 9 m/s to rest at –3 m/s ² . Find the time.	

Solutions

Problem	Solution
1	$(27 - 0) \div 9 = 3 \text{ m/s}^2$
2	$(10 - 30) \div 25 = -0.8 \text{ m/s}^2$
3	$4 + 2 \times 3 = 10 \text{ m/s}$
4	$20 \div 2.5 = 8 \text{ s}$
5	$27.78 \div 10 = 2.78 \text{ m/s}^2 \approx 0.28 \text{ g}$
6	$(0 - 9) \div (-3) = 3 \text{ s}$

Notes